



Ventilation and heat modeling



Ventilation engineering



Refrigeration engineering

CAPABILITY STATEMENT - COAL

BBE's consulting services encompass conceptual, pre-feasibility and feasibility studies. BBE also provides clients with life-of-mine ventilation system design services including optimisation, infrastructure requirements, capital cost estimates, power profiles, operating cost estimates and scheduling:

- Analysis, design and optimisation of ventilation systems
- Detailed engineering specifications for ventilation, cooling, refrigeration and energy recovery equipment.
- Surveys, audits and diagnostic work with ventilation and cooling networks and systems
- Ventilation system risk assessment
- Management of toxic and explosive gases
- Coal mine explosion management
- Dust control and management
- Diesel emission management
- Heat load analysis and cooling system design.
- Heat stress management strategies
- Rock thermal property measurement
- Energy management and system optimisation
- Occupational hygiene

Software

BBE make extensive use of commercially available software packages including VUMA-3D; Ventsim Visual, VNetPC and other specialised computational fluid dynamics [CFD] tools.